

**CLAIMS**

1. An automatic measuring device for measuring the dimensions of a tool for a machine tool comprising a spindle (10) for receiving a tool (2) which is  
5 capable of being moved in order to interact with the device (1) in order to deduce, according to a measuring system specific to said spindle (10), the dimensions of the tool (2), characterized in that it consists of a bar (3) made of a material  
10 having highly elastic properties, one of these ends of which is fixedly attached to a yoke attached to a fixed frame (5) and its opposite free end is in contact with two detectors (6 and 7) placed perpendicular to one another and to a  
15 yoke (8) capable of sliding on the flexible bar (3) that is overhung by a platform (9) on which said tool (2) to be measured is capable of resting.
2. The automatic measuring device for measuring the  
20 dimensions of a tool as claimed in claim 1, characterized in that the bar (3) is made of an elastic steel and has a square cross section.
3. The automatic measuring device for measuring the  
25 dimensions of a tool as claimed in either one of the preceding claims, characterized in that the detectors (6 and 7) are micrometric end-of-travel detectors, one of which (6) is placed vertically in order to determine the length and the other (7) is placed horizontally in order to determine the  
30 diameter.
4. The automatic measuring device for measuring the  
35 dimensions of a tool as claimed in claim 3, characterized in that each of the detectors (6 and 7) is connected to a measuring system specific to the positions of the spindle (10) thus making it

possible, when they break contact with the bar (3), to deduce the dimensions of the tool (2).

5. The automatic measuring device for measuring the dimensions of a tool as claimed in any one of the preceding claims, characterized in that the platform (9) is provided with a beveled edge (11).